

Wheel Guide Joint

Abstract

The present invention pertains to a joint arrangement for a wheel guide, especially for a driven, steerable axle of a motor vehicle. The joint arrangement comprises a joint fork (1), which can be arranged at a vehicle axle or at a wheel carrier, and a steering knuckle (2), which carries the wheel bearing (3), wherein the joint fork (1) and the steering knuckle (2) are pivotably connected to one another via two mounting points (4), (5). The joint arrangement according to the present invention is characterized in that at least one of the two mounting points (4), (5) of the joint arrangement has a toroidal roller bearing. Especially the wheel guiding and the axle geometry of driven, steered axles is improved with the present invention. While the mounting properties are improved, both the design effort for the wheel suspension and the space needed for the installation of the joint arrangement can thus be reduced. The present invention thus contributes to optimization of the axle kinematics, safety, cost effectiveness and reduced maintenance requirement of wheel suspensions as well as to the improvement of the comfort of the vehicle.

Figure 1